

Minnesota-FirstNet Consultation Project

August 2014



FirstNet Coverage Reviews

The State is set to perform interactive FirstNet coverage review for each county in Minnesota. The objective of the coverage review is to document the areas of highest priority for first responders and those areas where FirstNet can augment the broadband coverage where it does not exist today.

The process will begin with “Quickstart” counties. These counties have been able to accelerate their project through the quick reception of their CAD/RMS data and their enthusiastic participation in the MnFCP Project. Quickstart county reviews begin in August and will roll out to the rest of the state beginning in mid- September.

Why?

Coverage is King.

If you don't have coverage where you want or need it, you won't sign up for FirstNet's service. It won't matter how good tomorrow's public safety applications will be, how reliable the network is, or how great the service is if you don't have the coverage you need.

FirstNet Needs You.

Nobody can force you to subscribe to FirstNet's service. FirstNet needs you—whether you need FirstNet is up to you. In order for FirstNet to build a network you want, it needs to know what you need. So we are collecting your coverage requirements before a single site breaks ground.

It's YOUR Network.

This network is for first responders. It's for you, and it will be built to your needs. We have designed these sessions to empower you to communicate your coverage requirements to FirstNet: where you don't have it now, where it is most important to have it, and where you need to have it first.

Leech Lake and Waseca County Pilots

In 2012, the state of Minnesota, in partnership with Televate, piloted workshops to assess the wireless broadband coverage requirements of Waseca County and Leech Lake Reservation. For this pilot, we rendered three years' worth of CAD data over their jurisdictions to assess the areas of highest priority. The process allowed us to identify assets that could potentially be used by FirstNet to meet the coverage objectives of the first responders.

You can review our findings here:

<https://dps.mn.gov/divisions/ecn/Pages/broadband.aspx>

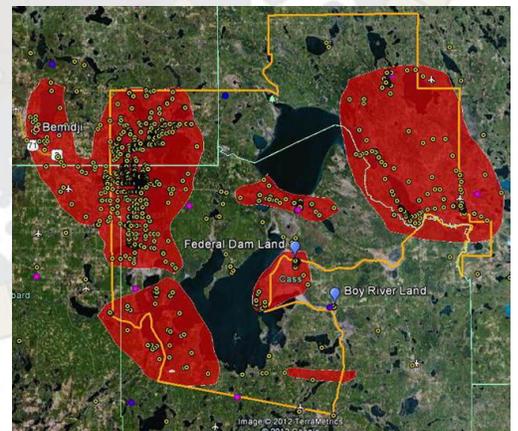


Figure 1: Leech Lake Reservation Priority Coverage Zones

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The Process

1. Collect CAD Data

The project team has collected CAD/RMS incident data from every PSAP in Minnesota for the past 3 years. We will convert this data to a visualization that takes into account the severity of the incident, the responding agencies and the number of units responding.

2. Perform Coverage Review

The team will perform interactive, web-based sessions where the project team will collect the coverage requirements with local and county stakeholders.

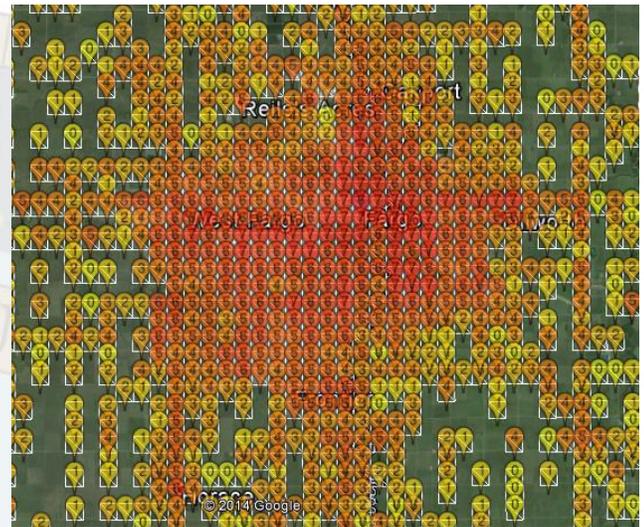


Figure 2: Example Visualization of CAD Data

Call Current Address Latitude	Call Current Address Longitude	Call Priority	Call Type
44.8:10000	-93.4:10000	3	Intoxication
44.8:10000	-93.4:10000	3	Intoxication
44.8:10000	-93.4:10000	3	Motorist Assist
44.8:10000	-93.4:10000	3	Motorist Assist
44.8:10000	-93.4:10000	3	Bar Check/Liq Compliance
44.8:10000	-93.4:10000	3	City Center Security Check
44.8:10000	-93.4:10000	3	911 Hang Up
44.8:10000	-93.4:10000	3	911 Hang Up
44.8:10000	-93.4:10000	3	911 Hang Up
44.8:10000	-93.4:10000	1	Medical - Other
44.8:10000	-93.4:10000	1	Medical - Other
44.8:10000	-93.5:10000	2	Alarm - Intrusion
44.8:10000	-93.5:10000	2	Alarm - Intrusion
44.8:10000	-93.5:10000	2	Alarm - Intrusion
44.8:10000	-93.4:10000	2	Suspicious Vehicle
44.8:10000	-93.4:10000	3	Public Assist
44.8:10000	-93.4:10000	2	DWI
44.8:10000	-93.4:10000	2	DWI
44.8:10000	-93.4:10000	2	DWI
44.8:10000	-93.4:10000	2	DWI
44.8:10000	-93.4:10000	3	Lock Out
44.8:10000	-93.4:10000	1	Alarm - Fire
44.8:10000	-93.4:10000	1	Alarm - Fire
44.8:10000	-93.4:10000	1	Alarm - Fire
44.8:10000	-93.4:10000	1	Alarm - Fire

Figure 3: Sample Historical CAD Data

3. Verify Conclusions

The team will assess the coverage requirements and produce a statistical analysis based on the three years of CAD incident data. The coverage assessment will normalize any differences in data statewide to ensure consistency.

4. Finalize Requirements

After the project team has completed the statistical analysis, the county will be given a second opportunity to review and modify their coverage objectives. This last step is vital because this information will be presented by the State to FirstNet to design and build the network.

What to Expect Next

- We will contact you to schedule a review session
- We will work with you to make sure the correct stakeholders are represented at the event
- We will provide data to review ahead of time
- We will schedule and execute your coverage review sessions sometime through Fall 2014

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Who Should Attend?

- Law Enforcement
- Sheriff
- Fire
- Radio/communications
- EMS
- PSAP/Dispatch
- Emergency Management
- Other Key Stakeholders
- You Decide!

Your Project Team

Jackie Mines, Director
Emergency Communication Networks
jackie.mines@state.mn.us
(651) 201-7550

John Tonding Central/Metro Interoperability Coordinator
Emergency Communication Networks
john.tonding@state.mn.us
(763) 587-8234

Marcus Bruning Northern Interoperability Coordinator
Emergency Communication Networks
marcus.bruning@state.mn.us
(218) 232-3762

Randy Donahue Southern Interoperability Coordinator
Emergency Communication Networks
randy.donahue@state.mn.us
(507) 360-2660

Mark Navolio Minnesota-FirstNet Project Manager
Televate, LLC
mnavolio@televate.com
(301) 922-6691

For more information visit ECN's website:
<https://dps.mn.gov/divisions/ecn/Pages/broadband.aspx>

Defining Public Safety Grade

FirstNet has no defined standard for "public safety grade" coverage for its broadband network yet, beyond that it will be "better than cellular commercial service".

These coverage review sessions provide you with the opportunity to define YOUR idea of "public safety grade" coverage for broadband.



Figure 4: Borden Lake ARMER Tower; potential FirstNet site

Coming August 13, 2014: Minnesota-FirstNet User Population Survey

ECN will publish the important Minnesota-FirstNet User Population Survey on August 13. This survey will assess the potential number of users, preferred device types, current spending and barriers to adoption for FirstNet. The information from this survey will be a cornerstone of a sustainable business case for FirstNet in Minnesota.